

**DuPont™ Escort® XP Herbicide**

Version 2.0

Revision Date 01/22/2010

Ref. 130000036195

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ Escort® XP Herbicide  
Tradename/Synonym : DPX-T6376 60 XP  
Metsulfuron Methyl 60 XP  
Escort 60 DF  
B11495142  
METSULFURON METHYL (Methyl 2-[[[(4-methoxy-6-methyl-1,3,4-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate)

MSDS Number : 130000036195  
Manufacturer : DuPont  
1007 Market Street  
Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

## Emergency Overview

**CAUTION!**

Causes eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid breathing vapours or mist.

## Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Skin : May cause: Irritation with discomfort or pain, redness or rash, itching or swelling.

Eyes : May cause: Irritation with discomfort, pain, redness, or visual impairment.

## Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Metsulfuron methyl	74223-64-6	60 %
Other Ingredients		40 %

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**SECTION 4. FIRST AID MEASURES**

- |                |   |   |
|----------------|---|---|
| Skin contact   | : | Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.   |
| Eye contact    | : | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.                                       |
| Inhalation     | : | No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.  |
| Ingestion      | : | No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.  |
| General advice | : | Have the product container or label with you when calling a poison control center or doctor, or going for treatment.<br>For medical emergencies involving this product, call toll free 1-800-441-3637. See Label for Additional Precautions and Directions for Use. |

**SECTION 5. FIRE-FIGHTING MEASURES**

- |                                |   |   |
|--------------------------------|---|---|
| Flammable Properties           |   |   |
| Flash point                    | : | not applicable  |
| Suitable extinguishing media   | : | Water spray, Dry chemical, Foam, Carbon dioxide (CO2)   |
| Unsuitable extinguishing media | : | High volume water jet, (contamination risk)   |
| Firefighting Instructions      | : | In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray. |

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- |                        |   |  |
|------------------------|---|--|
| Safeguards (Personnel) | : | Wear personal protective equipment. Refer to protective measures listed in sections 7 and 8.   |
| Spill Cleanup          | : | Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean-up methods - large spillage Prevent further leakage or spillage. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. If spill area is on |

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ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Handling (Physical Aspects) : Dust may form explosive mixture in air. Keep away from heat and sources of ignition.
- Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal protective equipment

- Skin and body protection : Applicators and other handlers must wear:  
Long sleeved shirt and long pants  
Shoes plus socks  
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:  
Coveralls  
Shoes plus socks

- Protective measures : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## Exposure Guidelines

## Exposure Limit Values

Metsulfuron methyl

AEL \*

(DUPONT) 10 mg/m<sup>3</sup> 8 & 12 hr. TWA

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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Form	: solid, granular
Color	: light brown
Odor	: odourless
Specific Gravity	: 1.47 at 25 °C (77 °F)
Bulk density	: 0.64 - 0.74 g/ml
	Tapped
Water solubility	: dispersible

**SECTION 10. STABILITY AND REACTIVITY**

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: None reasonably foreseeable.
Incompatibility	: No materials to be especially mentioned.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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Dermal LD50 : &gt; 2,000 mg/kg , rabbit

Oral LD50 : &gt; 5,000 mg/kg , rat

Skin irritation : Species: rabbit, No skin irritation

Eye irritation : Species: rabbit, slight irritation

Sensitisation : Species: guinea pig, Animal test did not cause sensitization by skin contact.

Metsulfuron methyl

Inhalation 4 h LC50 : &gt; 5.3 mg/l, rat

Repeated dose toxicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral, rat

Reduced body weight gain, Organ weight changes, Liver

Dermal, rabbit

Skin irritation

Carcinogenicity : Did not show carcinogenic effects in animal experiments.

Mutagenicity : Did not show mutagenic effects in animal experiments.

Did not cause genetic damage in cultured bacterial cells.

Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

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Reproductive toxicity : Animal testing did not show any effects on fertility.

Teratogenicity : Animal testing showed no developmental toxicity.

**SECTION 12. ECOLOGICAL INFORMATION**

## Aquatic Toxicity

Metsulfuron methyl

96 h LC50 : Oncorhynchus mykiss (rainbow trout) &gt; 150 mg/l

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) &gt; 150 mg/l

## Toxicity to other organisms

Metsulfuron methyl

LD50 : Anas platyrhynchos (Mallard duck) &gt; 2,510 mg/kg

LC50 : Colinus virginianus (Bobwhite quail) &gt; 5,620 mg/kg

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Container Disposal : Refer to the product label for instructions.

**SECTION 14. TRANSPORT INFORMATION**

IMDG	UN-Number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Metsulfuron methyl)
	Class	: 9
	Packaging group	: III
	Labelling No.	: 9

## Marine pollutant

Not regulated as a hazardous material by DOT.

Not regulated as a hazardous material by IATA.

Optional classification as per IATA Special Provision A97.

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**SECTION 15. REGULATORY INFORMATION**

SARA 313 Regulated Chemical(s) : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

EPA Reg. No. : 352-439  
In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

**SECTION 16. OTHER INFORMATION**

	NFPA	HMIS
Health :	1	1
Flammability :	1	1
Reactivity/Physical hazard :	0	0

MSDS preparation date : 01/22/2010

DuPont™, Escort® are trademarks of E. I. du Pont de Nemours and Company

Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.

**DuPont™ DPX-MAT28 50SG Herbicide**

Version 2.0

Revision Date 09/25/2009

Ref. 130000044335

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ DPX-MAT28 50SG Herbicide  
Tradename/Synonym : Aminocyclopyrachlor 50SG  
DPX-MAT28 50SG  
B12810297  
Aminocyclopyrachlor (6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid)

MSDS Number : 130000044335  
Manufacturer : DuPont  
1007 Market Street  
Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

## Emergency Overview

## Caution

Causes moderate eye irritation. Do not get in eyes or on clothing.

## Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Eyes : May cause: Irritation with discomfort, pain, redness, or visual impairment.

## Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Aminocyclopyrachlor	858956-08-8	50 %
Other Ingredients		50 %

**SECTION 4. FIRST AID MEASURES**

Skin contact : The material is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.

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- Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
- Inhalation : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- Ingestion : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
For medical emergencies involving this product, call toll free 1-800-441-3637.  
See Label for Additional Precautions and Direction

**SECTION 5. FIRE-FIGHTING MEASURES**

- Fire and Explosion Hazard : Not a fire or explosion hazard.
- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
- Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment. Evacuate personnel and keep upwind of fire. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Do not allow run-off from fire fighting to enter drains or water courses. In the event of fire, cool tanks with water spray.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.
- Spill Cleanup : Prevent further leakage or spillage. Clean up promptly by scoop or vacuum. Shovel into suitable container for disposal.
- Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Follow applicable Federal, State/Provincial and Local laws/regulations.

**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove



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clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

**Storage** : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal protective equipment

**Eye protection** : Wear protective eyewear to prevent contact with this substance.  
**Skin and body protection** : No PPE is specified however, avoid contact with skin, eyes, and clothing.

**Protective measures** : Use this product in accordance with its label. Eyewash facility and safety shower should be available.

## Exposure Guidelines

## Exposure Limit Values

## Aminocyclopyrachlor

AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.
AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust.

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: solid, granules
Color	: cream
Odor	: slight
pH	: 6.3
Density	: 0.529 g/ml

**SECTION 10. STABILITY AND REACTIVITY**

**Stability** : Stable at normal temperatures and storage conditions.

**Conditions to avoid** : None reasonably foreseeable.

**Incompatibility** : No materials to be especially mentioned.

**SECTION 11. TOXICOLOGICAL INFORMATION**

DuPont™ DPX-MAT28 50SG Herbicide

Inhalation 4 h LC50 : > 5.0 mg/l , rat

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Dermal LD50	:	> 5,000 mg/kg , rat
Oral LD50	:	> 5,000 mg/kg , rat
Skin irritation	:	Species: rabbit, No skin irritation
Eye irritation	:	Species: rabbit, Moderate eye irritation
Sensitisation	:	Species: mouse, Animal test did not cause sensitization by skin contact.
Aminocyclopyrachlor Mutagenicity	:	Evidence suggests this substance does not cause genetic damage in cultured bacterial cells., Evidence suggests this substance does not cause genetic damage in cultured mammalian cells., Evidence suggests this substance does not cause genetic damage in animals.
Reproductive toxicity	:	Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Teratogenicity	:	Evidence suggests the substance is not a developmental toxin in animals.

**SECTION 12. ECOLOGICAL INFORMATION**

## Aquatic Toxicity

## Aminocyclopyrachlor

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) > 122 mg/l
96 h LC50	:	Lepomis macrochirus (Bluegill sunfish) > 120 mg/l
72 h EC50	:	Pseudokirchneriella subcapitata (green algae) > 122 mg/l
72 h EC50	:	Anabaena flos-aquae (cyanobacteria) 7.4 mg/l
96 h EC50	:	Daphnia magna (Water flea) 43 mg/l

## Toxicity to other organisms

## Aminocyclopyrachlor

LD50	:	Colinus virginianus (Bobwhite quail) > 2,075 mg/kg Oral
LC50	:	Colinus virginianus (Bobwhite quail) > 5,620 ppm Dietary
LC50	:	Anas platyrhynchos (Mallard duck) > 5,620 ppm Dietary

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment

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or disposing of equipment washwaters or rinsate.

**SECTION 13. DISPOSAL CONSIDERATIONS**

- Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.
- Container Disposal : Container Refilling and Disposal:  
Refer to the product label for instructions.  
Do not transport if this container is damaged or leaking.  
In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

**SECTION 14. TRANSPORT INFORMATION**

Not Regulated as a hazardous material by DOT, IMO, or IATA.

**SECTION 15. REGULATORY INFORMATION**

- SARA 313 Regulated Chemical(s) : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- EPA Reg. No. : 352-XXX  
In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.
- California Prop. 65 : Chemicals known to State of California to cause cancer, birth defects or any other harm: none known

**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 09/25/2009

DuPont™ are trademarks of E. I. du Pont de Nemours and Company

Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

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storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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**Material Safety Data Sheet**

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"Oust" Herbicide  
M0000028 Revised 17-SEP-2008  
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Substance ID :130000000548  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

"Oust" is a registered trademark of DuPont.

Corporate MSDS Number : DU003048

# Tradenames and Synonyms

DuPont Sulfometuron Methyl 75  
Curavial  
DPX-T5648  
B10048832

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont  
1007 Market Street  
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.  
302-774-1000)  
Transport Emergency : CHEMTREC 1-800-424-9300 (outside U.S.  
703-527-3887)  
Medical Emergency : 1-800-441-3637 (outside the U.S.  
302-774-1000)

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
SULFOMETURON METHYL	74222-97-2	75
(Methyl 2-[[[(4,6-dimethyl-2-pyrimidinyl)- amino]carbonyl]amino]sulfonyl]benzoate)		
INERT INGREDIENTS		25

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HAZARDS IDENTIFICATION  
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Emergency Overview

CAUTION! Causes (moderate) eye injury (irritation). Avoid  
contact with eyes or clothing.

Printed on 10/22/2009

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**Potential Health Effects**

Based on animals data, eye contact with Oust may cause eye irritation with discomfort, tearing, or blurring of vision.

Based on animal data, ingestion of high doses of Sulfometuron Methyl may lead to red blood cell destruction.

**Carcinogenicity Information**

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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**FIRST AID MEASURES**  
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**# First Aid**

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: No specific intervention is indicated as the product is not likely to be hazardous by inhalation. Consult a physician if necessary.

IF ON SKIN OR CLOTHING: No specific intervention is indicated as the product is not likely to be hazardous to skin. Consult a physician if necessary.

IF SWALLOWED: No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call 1-800-441-3637 for emergency medical treatment information.

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**FIRE FIGHTING MEASURES**  
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**Flammable Properties**

Flammable limits in Air, % by Volume  
LEL : 0.092 g/L

Not a fire or explosion hazard.

Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

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**Extinguishing Media**

Water Spray, Foam, Dry Chemical, CO2.

**Fire Fighting Instructions**

Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Runoff from fire control may be a pollution hazard.

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

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**ACCIDENTAL RELEASE MEASURES**  
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**Safeguards (Personnel)**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

**Initial Containment**

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Follow applicable Federal, State/Provincial and Local laws/regulations.

**Spill Clean Up**

Shovel or sweep up. Dispose of in an approved container.

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**HANDLING AND STORAGE**  
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**Handling (Personnel)**

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**Handling (Physical Aspects)**

Avoid dust generation. Keep away from heat, sparks and flames.

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## Storage

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

## Personal Protective Equipment

Always follow the label instructions when handling this product.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.  
Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE.  
If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

Coveralls.  
Waterproof gloves.  
Shoes plus socks.

## Exposure Guidelines

## Applicable Exposure Limits

## SULFOMETURON METHYL

PEL (OSHA)	: None Established
TLV (ACGIH)	: 5 mg/m <sup>3</sup> , 8 Hr. TWA, A4
AEL * (DuPont)	: 10 mg/m <sup>3</sup> , 8 & 12 Hr. TWA total dust

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Solubility in Water	: Dispersible
Odor	: None
Form	: Solid, dry flowable



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Color : Off-white  
Bulk Density (Loose) : 33 lb/cu ft  
Bulk Density (Packed) : 39 lb/cu ft

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STABILITY AND REACTIVITY  
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Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition will not occur.

Polymerization

Polymerization will not occur.

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TOXICOLOGICAL INFORMATION  
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Animal Data

Oral LD50: > 5000 mg/kg in rats  
Skin absorption LD50: > 5000 mg/kg in rabbits  
Inhalation 4 hour LC50: > 5 mg/L in rats

Oust is a moderate eye irritant, but is not a skin irritant or a skin sensitizer in animals.

Single inhalation exposure with Oust (Sulfometuron Methyl 75%) in rats caused slight to moderate body weight loss, nasal and ocular discharge, and other nonspecific effects.

Single high oral doses of Oust (Sulfometuron Methyl 75%) produced no clinical signs of toxicity and no lesions were observed during pathological examination of tissue. Repeated oral studies with the active ingredient caused decreased body weight gain, liver changes, red blood cell hemolysis, and altered white blood cell counts. Long-term exposure caused mild hemolytic anemia, decreased body weight, alteration of clinical chemical parameters, and changes in the bile duct.

Oust (Sulfometuron Methyl 75%) administered in single high dermal doses caused temporary severe to slight skin irritation and sporadic weight loss.

Animal testing indicates that the active ingredient does

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not have carcinogenic effects. In a two generation rat reproduction study with Sulfometuron Methyl, decreased numbers of pups were observed at the 5000 ppm level, a dose that was also maternally toxic. No reproductive effects were observed at 500 ppm.

Sulfometuron Methyl did not produce developmental toxicity when tested in animals. Sulfometuron methyl did not produce genetic damage in bacterial or mammalian cell cultures.

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ECOLOGICAL INFORMATION  
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Ecotoxicological Information

AQUATIC TOXICITY:

SULFOMETURON METHYL

48 hour NOEC - Daphnia magna: > 150 mg/L.

96 hour LC50 - Rainbow trout: > 148 mg/L.

96 hour LC50 - Bluegill sunfish: > 150 mg/L.

AVIAN TOXICITY:

SULFOMETURON METHYL

Acute Dietary LC50 - Mallard Duck: > 5000 ppm.

Acute Dietary LC50 - Bobwhite Quail: > 5620 ppm

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DISPOSAL CONSIDERATIONS  
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Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Do not contaminate water supply, food or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

Container Disposal

For Plastic Containers: Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Du Pont**  
**Material Safety Data Sheet**

For Fiber Sacks: Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration if allowed by State and local authorities.

For Fiber Drums With Liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

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TRANSPORTATION INFORMATION  
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Shipping Information

DOT/IMO  
Proper Shipping Name : NOT REGULATED

-----  
REGULATORY INFORMATION  
-----

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : No  
Fire : No  
Reactivity : No  
Pressure : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-401

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OTHER INFORMATION  
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NFPA, NPCA-HMIS

NFPA Rating  
Health : 1  
Flammability : 1  
Reactivity : 0

NPCA-HMIS Rating

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**Material Safety Data Sheet**

Health : 1  
Flammability : 1  
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

-----  
The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: DuPont Crop Protection  
Address : Wilmington, DE 19898  
Telephone : 1-888-638-7668

# Indicates updated section.

**DuPont™ Telar® XP Herbicide**

Version 2.2

Revision Date 04/27/2009

Ref. 130000029428

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ Telar® XP Herbicide  
Tradename/Synonym : Chlorsulfuron 75XP  
Chlorsulfuron XP  
DPX-W4189  
Glean XP  
B10045552  
CHLORSULFURON (2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)aminocarbonyl] benzenesulfonamide)

MSDS Number : 130000029428  
Product Use : Herbicide

Manufacturer : DuPont  
1007 Market Street  
Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

## Emergency Overview

## Caution

Harmful if swallowed. Wash thoroughly with soap and water after handling.

## Potential Health Effects

This section includes potential adverse effects which could occur if this material is not used according to the label.

## Skin

Chlorsulfuron : May irritate skin.

## Eyes

Chlorsulfuron : May irritate eyes.

## Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Chlorsulfuron	64902-72-3	75 %
Inert Ingredients		25 %

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**SECTION 4. FIRST AID MEASURES**

- |                |   |
|----------------|---|
| Skin contact   | : The material is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.  |
| Eye contact    | : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.                                     |
| Inhalation     | : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.  |
| Ingestion      | : Call a poison control centre or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. |
| General advice | : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.<br>For medical emergencies involving this product, call toll free 1-800-441-3637.<br>See Label for Additional Precautions and Direction      |

**SECTION 5. FIRE-FIGHTING MEASURES**

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| Unsuitable extinguishing media | : High volume water jet, (contamination risk)   |
| Firefighting Instructions      | : In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray. |

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- |                        |  |
|------------------------|--|
| Safeguards (Personnel) | : Wear personal protective equipment.  |
| Spill Cleanup          | : Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean-up methods - large spillage Prevent further leakage or spillage. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. |

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Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas.

**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition. Under severe dusting conditions, this material may form explosive mixtures in air.
- Storage : Store in original container. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep out of reach of children.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls : When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.  
IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.
- Personal protective equipment
- Skin and body protection : Applicators and other handlers must wear:  
Long sleeved shirt and long pants  
Chemical resistant gloves made of any waterproof material  
Shoes plus socks  
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:  
Coveralls  
Chemical resistant gloves made of any waterproof material  
Shoes plus socks
- Protective measures : Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Exposure Guidelines  
Exposure Limit Values  
Chlorsulfuron

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AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA	Total dust.
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Respirable dust.

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: solid, dry, free flowing, water dispersible granules
Color	: beige
Odor	: mild
pH	: 4.4 - 5.4
Density	: 0.58 - 0.7 g/ml
Water solubility	: dispersible

**SECTION 10. STABILITY AND REACTIVITY**

Stability	: Stable at normal temperatures and storage conditions.
Incompatibility	: None reasonably foreseeable.

**SECTION 11. TOXICOLOGICAL INFORMATION**

DuPont™ Telar® XP Herbicide	
Dermal LD50	: > 5,000 mg/kg , rabbit
Oral LD50	: > 2,000 mg/kg , rat
Skin irritation	: Species: rabbit, slight irritation
Eye irritation	: Species: rabbit, slight irritation
Sensitisation	: Species: guinea pig, Did not cause sensitization on laboratory animals.
Chlorsulfuron	
Inhalation 4 h LC50	: > 5.5 mg/l, rat
Repeated dose toxicity	: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
	Inhalation, rat Reduced body weight gain, Kidney effects, Spleen effects, Bloody urine, bone marrow changes
	Oral, rat Reduced body weight gain, altered blood chemistry
	Oral, dog



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Abnormal decrease in number of red blood cells

Carcinogenicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

A slight increased incidence in tumors was observed in one species, but not in other species.

Target(s):, Leydig cells

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

Did not cause genetic damage in animals.

Did not cause genetic damage in cultured mammalian cells.

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Animal testing showed effects on embryo-foetal development at levels equal to or above those causing maternal toxicity.

**SECTION 12. ECOLOGICAL INFORMATION**

## Aquatic Toxicity

## Chlorsulfuron

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 122 mg/l

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) > 128 mg/l

96 h LC50 : Cyprinodon variegatus (sheepshead minnow) > 980 mg/l

120 h EC50 : Algae 0.05 ppm

48 h EC50 : Daphnia magna (Water flea) > 112 mg/l

## Toxicity to other organisms

## Chlorsulfuron

LD50 : Anas platyrhynchos (Mallard duck) > 5,000 mg/kg  
Oral

LD50 : Colinus virginianus (Bobwhite quail) > 5,000 mg/kg  
Oral

8 d LC50 : Colinus virginianus (Bobwhite quail) > 5,620 mg/kg  
Dietary

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8 d LC50 : Anas platyrhynchos (Mallard duck) > 5,620 mg/kg  
Dietary

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Container Disposal : Refer to the product label for instructions.

**SECTION 14. TRANSPORT INFORMATION**

Not regulated in transportation by DOT/IMO/IATA.

**SECTION 15. REGULATORY INFORMATION**

SARA 313 Regulated Chemical(s) : Chlorsulfuron

Title III hazard classification : Acute Health Hazard: Yes  
Chronic Health Hazard: No  
Fire: No  
Reactivity/Physical hazard: No  
Pressure: No

EPA Reg. No. : 352-654  
In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

California Prop. 65 : WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.  
Chlorsulfuron

**SECTION 16. OTHER INFORMATION**

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	NFPA	HMIS
Health :	1	1
Flammability :	1	1
Reactivity/Physical hazard :	0	0

DuPont™, Telar® are trademarks of E. I. du Pont de Nemours and Company

Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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